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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

**In re application of:** Lin

**Application No.** 10/623,195

**Filed:** July 18, 2003

**Confirmation No.** 2663

**For:** INTELLIGENT DIFFERENTIAL  
QUANTIZATION OF VIDEO CODING

**Examiner:** To be assigned

**Art Unit:** 2624

**Attorney Reference No.** 3382-66125-01

CERTIFICATE OF MAILING

I hereby certify that this paper and the documents referred to as being attached or enclosed herewith are being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 on the date shown below.

Attorney  
for Applicant(s)

Date Mailed

*[Signature]*  
6/9/2005

**INFORMATION DISCLOSURE STATEMENT  
PURSUANT TO 37 C.F.R. § 1.97(b)(3)**

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicant respectfully requests that these documents be listed as references cited on the issued patent.

If the present application was filed after June 30, 2003, copies of United States patents and United States published patent applications do not have to be provided to the Patent Office. This requirement of 37 C.F.R. § 1.98(a)(2)(i) has been waived by the United States Patent and Trademark Office pursuant to the Official Gazette Notice on August 5, 2003 (1276 OG 55). Applicant will provide copies of such patents upon request.

Applicant filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

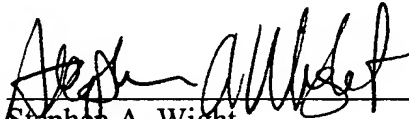
However, if the Patent Office determines that a fee is required for Applicant to file this IDS,

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The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

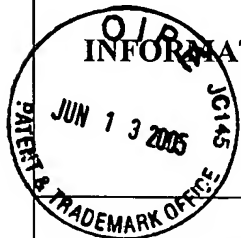
Respectfully submitted,

KLARQUIST SPARKMAN, LLP

By   
Stephen A. Wight  
Registration No. 37,759

One World Trade Center, Suite 1600  
121 S.W. Salmon Street  
Portland, Oregon 97204  
Telephone: (503) 226-7391  
Facsimile: (503) 228-9446

cc: Docketing



# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney Docket Number	3382-66125-01
Application Number	10/623,195
Filing Date	July 18, 2003
First Named Inventor	Lin
Art Unit	2624
Examiner Name	To be assigned

## U.S. PATENT DOCUMENTS

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Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee
		2005-0013365	Jan. 20, 2005	Mukerjee <i>et al.</i>
		2005-0013497	Jan. 20, 2005	Hsu <i>et al.</i>
		2005-0013498	Jan. 20, 2005	Srinivasan <i>et al.</i>
		2003-0113026	Jun 19, 2003	Srinivasan <i>et al.</i>
		2003-0194010	Oct. 16, 2003	Srinivasan <i>et al.</i>
		2004-022316	Feb. 5, 2004	Ueda <i>et al.</i>
		5,870,435	Feb. 9, 1999	Choi <i>et al.</i>
		6,765,962	July 20, 2004	Lee <i>et al.</i>
		6,687,294	Feb. 3, 2004	Yan <i>et al.</i>
		6,546,049	April 8, 2003	Lee
		6,249,614	June 19, 2001	Bocharova <i>et al.</i>
		6,148,107	Nov. 14, 2000	Ducloux <i>et al.</i>
		6,118,817	Sept. 12, 2000	Wang
		6,084,636	July 4, 2000	Fujiwara Mitsuaki <i>et al.</i>

EXAMINER  
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DATE  
CONSIDERED:

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<b>FOREIGN PATENT DOCUMENTS</b>					
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>Country</b>	<b>Number</b>	<b>Publication Date</b>	<b>Name of Applicant or Patentee</b>
		JP	2003061090	Feb. 28, 2003	Takagi Koichi <i>et al.</i>
		CA	1327074	Feb. 15, 1994	Asai Kohtaro <i>et al.</i>
		WO	0021207	April 13, 2000	Lee
<b>Examiner's Initials*</b>	<b>Cite No. (optional)</b>	<b>OTHER DOCUMENTS</b>			
		"H.264 & IPTV Over DSL - Enabling New Telco Revenue Opportunities," <i>White Paper</i> , Intel/Envivio, May 15, 2004, available at <a href="http://www.envivio.com/images/products/H264whitepaper.pdf">http://www.envivio.com/images/products/H264whitepaper.pdf</a> .			
		H.W. Park and Y. L. Lee, "A post processing method for reducing quantization effects in low bit-rate moving picture coding," <i>IEEE Trans. Circuits Syst., Video Technol.</i> , Vol. 9, pp. 161-171, February 1999.			
		D. J. LeGall, H. Gaggioni, and C. T. Chen, "Transmission of HDTV signals under 140 Mbits/s using a subband decomposition and Discrete Cosine Transform coding," in <i>Signal Processing of HDTV</i> , L. Chiariglione, Ed., pp. 287-293, Elsevier, Amsterdam, 1988.			
		D.J. LeGall, "MPEG: A Video Compression Standard for Multimedia Application," <i>Communications of the ACM</i> , Vol. 34, No. 4, pp. 47-58, April 1991.			
		D.J. LeGall, "The MPEG Video Compression Algorithm," <i>Signal Processing: Image Communication</i> 4, Vol. 4, No. 2, pp. 129-140, April 1992.			
		"ISO/IEC 11172-2. Coding of moving pictures and associated audio for digital storage media at up to about 1.5 Mbit/s," MPEG (Moving Pictures Expert Group), International Organization for Standardization, 1993. (MPEG1 Video).			
		"ISO/IEC 13818-2. Generic coding of moving pictures and associated audio information," MPEG (Moving Pictures Expert Group), International Organization for Standardization, 1994. (MPEG2 Video).			
		Video Coding for Low Bitrate Communication, ITU-T Recommendation H.263, 1996.			

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		First Named Inventor	Lin
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		Examiner Name	To be assigned
		M. Flierl, T. Wiegand, and B. Girod, "A Video Codec Incorporating Block-Based Multi-Hypothesis Motion-Compensated Prediction," in <i>Proceedings of the SPIE Conference on Visual Communications and Image Processing</i> , Perth, Australia, vol. 4067, pp. 238-249, June 2000.	
		H.G. Musmann, P. Pirsch, and H.J. Grallert, "Advances in Picture Coding," <i>Proceedings of the IEEE</i> , vol. 73, no. 4, pp. 523-548, April 1985.	
		S.-W. Wu and A. Gersho, "Joint Estimation of Forward and Backward Motion Vectors for Interpolative Prediction of Video," <i>IEEE Transactions on Image Processing</i> , vol. 3, no. 5, pp. 684-687, September 1994.	
		X. Wu, N. Memon, "Context-based adaptive lossless codec," <i>IEEE Trans. Communications</i> , vol. 45, pp. 437-444, 1997.	
		N.Ahmed, T.Natrajan and K.R.Rao, "Discrete Cosine Transform," <i>IEEE Trans. on Computers</i> , Vol. C-23, No.1, pp. 90-93, December 1984.	

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